Nixon & Vanderhye P.C. (12/95)

RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I be. I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

| subject | | COLLO | IDAL PHOTONIC CRYSTALS | | | | |
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| the spe | cification of which (check applicable | | STILL THE TOTAL ON THINKS | | | | |
| | attached hereto | \ <i>''</i> | | | | | |
| | as filed on | | as U.S. Application Serial No | | | Atty Dkt. No. | |
| | as filed as PCT International applica | | PCT/GB00/03405 | on | 05/09/00 | 7 kily 5 kil. 110. | |
| and (if a | applicable to U.S. or PCT application |) was amended on | 26/11/01 | | | · | |
| amenar | state that I have reviewed and undenent referred to above. I acknowledge | te the duty to disclos | e information which is material t | n the na | tantability of this a | polication in consulation as with | |
| below a | R. 1.56. I hereby claim foreign priorit nd have also identified below any for s claimed or, if no priority is claimed, | ty benefits under 35 t eign application for p | J.S.C. 119/365 of any foreign ap atent or inventor's certificate ha | ndicatio | n(e) for natent or in | wantar's cartificate listed | |
| Priority | Foreign Application(s): | ocioic aic illing date | з от ина аррисацоп. | | | | |
| | tion Number | | Country | | | Day/Month/Year Filed | |
| 992104 | | | GB | | | Day/Month/Year Filed 07/09/99 | |
| l hereby Applica | claim the benefit under 35 U.S.C. § tion Number | 119(e) of any United D | States provisional application(s late/Month/Year Filed | listed b | elow. | | |
| U.S.C. 1 | claim the benefit under 35 U.S.C. 12 matter of each of the claims of this at 12, I acknowledge the duty to disclorons and the national or PCT internat | pplication is not discl se material information | osed in such prior applications i on as defined in 37 C.F.R. 1.56 | n the m | anner provided by i | the first naragraph of 35 | |
| Prior U. | S./PCT Application(s): | | | | | 64-4 | |
| Application Serial No. | | ā | Day/Month/Year Filed | | | Status: patented pending, abandoned | |
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| PCT/GE | 00/03405 | | 05/09/00 | | | pending, abandoned PENDING | |
| I hereby be true; imprisor applicati 22201-4 address connects 30184; F Spooner Thomas | declare that all statements made he and further that these statements we ment, or both, under Section 1001 or on or any patent issued thereon. An 714, telephone number (703) 816-4 individually and collectively my attored therewith and with the resulting part (27393; Leonard C. Mitchard, 29009 E. Byme, 32205; Mary J. Wilson, 32 doff, 36663; James D. Berquist, 3477 | rein of my own knowlere made with the known fille 18 of the Unite of I hereby appoint NI 1000 (to whom all comeys to prosecute thatent: Arthur R. Cravelesha, 22770; Mark Els Davidson 1955; J. Scott Davidson 1956; J. Scott | 05/09/00 dedge are true and that all states by dedge that willful false statement of States Code and that such with XON & VANDERHYE P.C., 110 mmunications are to be directly of the states of the st | ents and Iful falso IO North ted), ar busines 640; Ro Ceenan, John R. | I the like so made as estatements may jour office of the following attests in the Patent and bert A. Vanderhye. 32106; Bryan H. E. Lastova, 33149; H. Samuel, Griffin, 31266 | PENDING and belief are believed to are punishable by fine or eopardize the validity of the oor, Arlington, VA omeys thereof (of the same d Trademark Office, 27076; James T. Hosmer, Davidson, 30251; Stanley C. Warren Burmam, Jr. 29366; Deport A. Molan, 2934; | |
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FOR ADDITIONAL INVENTORS, check box 🛛 and attach sheet with same information and signature and date for each.

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Page 2

| J. | Inventor's Signature: | | | | Date: | |
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| 4. | Inventor's Signature: | | | | Date: | |
| ~. | Inventor: | Terence | J | SHEPHERD | | GB |
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| 6. | Inventor's Signature: | | | | Date: | |
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| | inventor. | (first) | MI | (last) | | (citizenship) |
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| | Inventor: | (first) | MI | (last) | | (citizenship) |
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| 10. | Inventor's Signature: | | | | Date: | |
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RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

elow named inventor, I hereby declar that my residence, post office address and citizenship are as stated below next to my name, and I believe ne original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: COLLOIDAL PHOTONIC CRYSTALS the specification of which (check applicable box(s)): is attached hereto was filed on as U.S. Application Serial No. Atty Dkt. No was filed as PCT International application No. Ø PCT/GB00/03405 05/09/00 and (if applicable to U.S. or PCT application) was amended on 26/11/01 I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendm intreferred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance wit 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificat listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on whic priority is claimed or, if no priority is claimed, before the filing date of this application: Priority Foreign Application(s): Applicati n Number Country Day/Month/Y ar File 9921048.6 GB 07/09/9 I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. Application Number Date/Month/Year Filed I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as th subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application: Prior U.S./PCT Application(s): Status: patente Application Serial No. Day/Month/Year Filed pending, abandone PCT/GB00/03405 05/09/00 PENDIN I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366 Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeen S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331. Inventor's Signature: Inventor: Richard М AMOS GR (first) MI (last) (citizenship) QinetiO Malvem Residence: (city) (state/country) GB Post Office Address: St Andrews Road, Malvern (Zip Code) **WR14 3PS** Inventor's Signature: Inventor: TAPSTER Pau (first) (citizenship) (last) Residence: (city) QinetiQ Malvem (state/country)

FOR ADDITIONAL INVENTORS, check box 🔯 and attach sheet with same information and signature and date for each.

St Andrews Road, Malvern Worcs

WR14 3PS

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(Zip Code)

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Nixon & Vanderhye P.C. (12/95)

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Page 2 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| 3 B | Inventor's Signature: | John (first) | S G | RARITY (last) | Date: | 26th Mourch 2002 GB (citizenship) |
|-------------|--|---|--|----------------------------------|-------|---|
| | Residence: (city) Post Office Address: (Zip Code) | QinetiQ Malvem St Andrews Road, Ma WR14 3PS | $\supset \mathcal{D} \cup \mathcal{D}$ | (state/country) GB | | |
| | Inventor's Signature: Inventor: | Terence (first) | MA J | SHEPHERD (last) | Date: | 19 Harh 2002 GB (citizenship) |
| - 60 | Residence: (city) Post Office Address: (Zip Code) | St Andrews Road, Mah WR14 3PS | vern Words | (state/country) GB | | |
| 5. D | Inventor's Signature: Inventor: Residence: (city) | Stephen (first) | Q C | KITSON (last) (state/country) GB | Date: | GB (citizenship) |
| 6. | Post Office Address: (Zip Code) Inventor's Signature: | Hewlett Packard HP L BS34 8Q2 | abš, Phitton Road, Stoke | Cifford,Bristol | Date: | |
| | Inventor: Residence: (city) Post Office Address: (Zip Code) | (first) | MI | (last) (state/country) | | (citizenship) |
| 7. | Inventor's Signature: Inventor: | | | | Date: | |
| | Residence: (city) Post Office Address: (Zip Code) | (first) | MI | (last) (state/country) | | (citizenship) |
| 8. | Inventor's Signature: Inventor: | (first) | MI | (last) | Date: | (citizenship) |
| | Residence: (city) Post Office Address: (Zip Code) | | | (state/country) | | |
| 9. | Inventor's Signature: Inventor: Residence: (city) | (first) | MI | (last) | Date: | (citizenship) |
| | Post Office Address: (Zip Code) | | | (state/country) | | |
| 10. | Inventor's Signature: Inventor: Residence: (city) | (first) | MI | (last) (state/country) | Date: | (citizenship) |
| | P st Office Address: (Zip Code) | | | (Saleswardy) | | |

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1. The Review of the 200 MM